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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/831,555		08/14/2001	Balbir Kumar	540-311 5779	
23117	7590	12/30/2003		EXAMINER	
NIXON &		RHYE, PC	WIMER, MICHAEL C		
8TH FLOC				. ART UNIT	PAPER NUMBER
ARLINGT	ON, VA	22201-4714		2821	

DATE MAILED: 12/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		XV X	
	Application No.	pplicant(s)	
	09/831,555	KUMAR, BALBIR	
Offic Action Summary	Examiner	Art Unit	
	Michael C. Wimer	2821	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by si - Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b). Status	DN. R 1.136(a). In no event, however, may a t. a reply within the statutory minimum of thi briod will apply and will expire SIX (6) MO tatute, cause the application to become A	reply be timely filed thy (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on _	·		
2a) ☐ This action is FINAL. 2b) ☑ T	his action is non-final.		
Since this application is in condition for all closed in accordance with the practice und			
Disposition of Claims			
4) ☐ Claim(s) 1-6,9-23,25 and 27 is/are pending 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 9-12 is/are allowed. 6) ☐ Claim(s) 1-6,13-23,25 and 27 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers	·		
9) The specification is objected to by the Exar 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co	accepted or b) objected to the drawing(s) be held in abeya rrection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. §§ 119 and 120		0.4404.3.433.40	
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a 13) Acknowledgment is made of a claim for dom since a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language 14) Acknowledgment is made of a claim for dom reference was included in the first sentence of	nents have been received. nents have been received in a priority documents have been reau (PCT Rule 17.2(a)). list of the certified copies no nestic priority under 35 U.S.C e first sentence of the specific e provisional application has beestic priority under 35 U.S.C	Application No In received in this National Stage a received. If \$ 119(e) (to a provisional application) cation or in an Application Data Sheet. If the provisional application or in an Application Data Sheet. If the provisional application Data Sheet. If the provisional application Data Sheet.	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No.) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

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DETAILED ACTION

Allowable Subject Matter

1. Claims 9-12 are allowed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Brigginshaw (GB 2253947).

Regarding Claims 1-6, Brigginshaw show a device for controlling the direction of a radiation beam comprising a transmission means 1 for transmitting the radiation beam 21 from a radiation source 23, and a steering means 9N,S,11N,S for steering the radiation beam, wherein the transmission means comprises a body 1 of ferrite (magnetic) material having a central axis which forms an aperture through which the radiation beam passes, the central axis being parallel to and coincident with the direction of the radiation beam prior to incidence on the transmission means, and wherein the steering means causes the radiation beam to emerge from the transmission means spatially offset (angle theta) relative to the central axis in free space in a known direction, all arranged as claimed. Further regarding Claims 4-6, the gradient of magnetization F is shown as claimed.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 13-23,25 and 27 rejected under 35 U.S.C. 103(a) as being unpatentable over Brigginshaw in view of Darbowitch et al. (4740791).

Regarding Claims 13-19,22 and 23, Darbowitch et al show a conical reflector 3 mounting at the apex, the phased array 1. It would have been obvious to the skilled artisan to employ the reflector of Darbowitch et al in the array of Brigginshaw for the purpose of providing a scanned microwave beam in the azimuth plane in a 360 degree rotation, in any microwave band desired. Regarding Claims 20,21,25 and 27, modulation and demodulation means are obvious devices in a transceiver for producing and demodulating the information contained in the signal.

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Response to Arguments

- 6. Applicant's arguments with respect to claims of record have been considered but are most in view of the new ground(s) of rejection.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (703) 305-3555. The examiner can normally be reached on M-F.

Michael C. Wimer' Primary Examiner Art Unit 2821

MCW 12/18/2003